

# **NERIS: European Platform on Preparedness for Nuclear and Radiological Emergency Response and Recovery**

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Chair of NERIS Platform**

ICRP Symposium  
*Oct. 10-12, 2017*

- ▶ Objectives:
  - Improving the effectiveness and coherency of current approaches to preparedness
  - Identifying further development needs
  - Improving know-how and technical expertise
  - Establish a forum for dialogue and methodological development
- ▶ Currently:
  - 57 organisations from 28 different countries
  - 26 supporting organisations

- ▶ Activities of the NERIS Working Groups
  - WG on ICRP recommendations (Wolfgang Raskob, KIT)
  - WG on Contaminated Goods – ConGoo (Sylvie Charron, IRSN)
  - WG on Information, Participation & Communication – IPC (Eduardo Gallego, UPM)
- ▶ Activities of the RODOS Users Group (Florian Gering, BfS)
- ▶ R&D Committee – Update of the SRA (Johan Camps, SCK-CEN)
- ▶ NERIS Training courses on emergency (SCK-CEN) and recovery (CEPN)

- ▶ **PREPARE Project:** Innovative integrated tools and platforms for radiological emergency preparedness and post-accident response in Europe
- ▶ **OPERRA Projects:**
  - **CATHyMARA:** Child and adult thyroid monitoring after reactor accident
  - **HARMONE:** Harmonising modelling strategies of European decision support systems for nuclear emergencies
  - **SHAMISEN:** Nuclear emergency situations - Improvement of medical and health surveillance
- ▶ **COMET Project:** Coordination and implementation of a pan-European instrument for radioecology

**► CONCERT Projects:**

- **CONFIDENCE:** Coping with uncertainties for improved modelling and decision making in case of nuclear emergency
- **TERRITORIES:** Reducing uncertainties in human and ecosystem radiological risk assessment and management in nuclear emergencies and existing exposure situations, including NORM
- **SHAMISEN SINGS:** Nuclear emergency situations – Improvement of dosimetric, medical and health surveillance – Stakeholder involvement in generating science
- **ENGAGE:** Enhancing stakeholder participation in the governance of radiological risks for improved radiation protection and informed decision-making (under-negotiation)

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- Importance of transparency of the decision-making processes at the local, regional and national levels
- Key role of the access to environmental monitoring at local, national and international levels
- Importance to deal with uncertainties in assessment and management of the different phases of the accident
- Use of modern social media in the exchange of information
- Role of stakeholder involvement processes in both emergency and recovery situations
- Better address societal, ethical and economic aspects
- Need to reinforce Education & Training for various actors

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3 challenge areas, 10 key topics

- ▶ Challenges in radiological impact assessment during all phases of nuclear and radiological events
- ▶ Challenges in countermeasures and countermeasure strategies in emergency & recovery, decision support and disaster informatics
- ▶ Challenges in setting-up a trans-disciplinary and inclusive framework for preparedness for emergency response and recovery

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- ▶ Provide increased capabilities to assess the different radiological situations, including improved modelling, monitoring and data assimilation
- ▶ For the implementation of optimisation:
  - Improved decision-making using analytical platform and knowledge database allowing to cope with the different phases and scales of the accident (local/regional/national/international)
  - Better knowledge on countermeasures and countermeasures strategies with a specific focus on transition and long term phases

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- ▶ Development of guidance framework for establishing successful stakeholder engagement process
- ▶ Integrating citizen science in radiological risk governance
- ▶ Improving health surveillance programme
- ▶ Improving management of food and non-food products from contaminated areas
- ▶ Better addressing ethical, societal and economic aspects in the decision making processes

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- ▶ Reinforce joint research at European Union level in interaction with the other research platforms
- ▶ Engage dialogue and consultation
- ▶ Consolidate the connection with organisations involved in the management of Chernobyl and Fukushima accidents, notably with ICRP and Japanese organisations
- ▶ Towards harmonisation of Emergency and Recovery approaches in Europe

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- ▶ 25-27 April 2018, Dublin Castle (Ireland)



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**Thank you for your attention**

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